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Claims

1. A hinge device (2, 22) comprising a lever (6) that is provided with two top parts (4, 5), which are used for assembling the lever (6) and are pivotable about a pin, **characterized by** two bodies (10, 11), of which each can pivot about an axis of rotation coupled with the pivoting movement of an associated top part (4, 5), and comprising two traction ropes (8, 9), which grip the two bodies (10, 11) on gripping points (12, 13, 16, 17) on different sides of a plane in which the two axes of rotation are located.
2. The hinge device (2, 22) according to claim 1, **characterized in that** the bodies (10, 11, 27) are rotatably coupled to the respectively associated top part (4, 5) at equivalent gear ratios and that the gripping points (12, 13, 16, 17) have the same distance from the plane.
3. The hinge device (2, 22) according to claim 1 or 2, **characterized in that** the connected traction ropes (8, 9) are wrapped around at least one of the bodies (10, 11).
4. The hinge device (2, 22) according to claim 3, **characterized in that** a wrapped surface of the body (10, 11) has a substantially circular or circular sector shape.
5. The hinge device (2, 22) according to claim 4, **characterized in that** the body (10, 11) is a gear wheel.

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6. A hinge device (2, 22) according to any one of the preceding claims,
characterized in that the pin of the top part (4, 5) coincides with the axis of rotation of the respectively associated body (10, 11).
7. A hinge device (2, 22) according to any one of the preceding claims,
characterized in that the traction ropes (8, 9) are continuously connected into an endless loop (7).
8. A hinge device (2) according to any one of the preceding claims,
characterized in that the body (10, 11) is rigidly connected to the associated top part (4, 5).
9. A hinge device (2, 22) according to any one of the claims 1 to 7,
characterized in that the body (10, 11) is connected to the associated top part (4, 5) via a gear set (19, 20; 24).
10. The hinge device (2, 22) according to claim 9, **characterized in that** the gear set is a planetary gear arrangement (24).
11. A hinge device (2, 22) according to any one of the preceding claims,
characterized in that the traction ropes (8, 9) are chains.
12. A hinge device (2, 22) according to any one of the claims 1 to 11,
characterized in that the traction ropes (8, 9) are belts.
13. A hinge device (2, 22) according to any one of the preceding claims,
characterized in that the lever (6) is bent in at least one angle.

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14. The hinge device (2, 22) according to claim 13, **characterized by** deflection elements (15) for the traction ropes (8, 9), which elements are disposed on the angle.

15. The hinge device (2, 22) according to claim 14, **characterized in that** the deflection elements (15) are rollers.

16. The hinge device (2, 22) according to claim 14 or 15, **characterized in that** the angle divides the lever into two sections with different lengths and that the traction ropes (8, 9) extend toward each other from the top part (4) to the angle on the one of the two sections to which the door (1) is connected.

17. The hinge device (2, 22) according to claim 14 or 15, **characterized in that** the outer traction rope (9) extending on a convex side of the lever (6) is guided via two deflection elements (15).

18. A hinge device (2, 22) according to any one of the preceding claims, **characterized in that** the lever (6) is hollow and the traction ropes (8, 9) and the bodies (10, 11) are accommodated therein.

19. A hinge device according to any one of the preceding claims, **characterized in that** a motor for driving a pivoting movement of the top parts in relation to the lever (6) is attached to the lever (6).

20. The hinge device according to claim 19, **characterized in that** the motor carries a pinion meshing with one of the traction ropes (8, 9).

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21. The hinge devices according to claim 19 and claim 5, **characterized in that** the motor carries a pinion meshing with one of the gear wheels (10, 11).

22. The hinge devices according to claim 18 and any one of the claims 19 to 21, **characterized in that** the motor is accommodated in the hollow lever (6).

23. A combined hinge device, **characterized by** a shaft, to which a plurality of hinge devices (2, 22) according to any one of the preceding claims are connected.

24. A door (1, 21) comprising hinge devices (2, 22) according to any one of the claims 1 to 18 or the combined hinge device according to claim 19, wherein the levers (6) are mounted on the door (1, 21) with a first one of the top parts (4, 5) and are disposed staggered in such a manner that the first and second axes coincide.

25. A motor vehicle (23) comprising the door (1, 21) according to claim 20, wherein the levers (6) are mounted on a frame of the motor vehicle (23) using a second of the top parts (4, 5).

26. The motor vehicle according to claim 21, **characterized by** a horizontal orientation of the axes of rotation.

27. The motor vehicle according to claim 21, **characterized by** a vertical orientation of the axes of rotation.

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28. A motor vehicle (23) comprising an engine hood (18) with at least one hinge device (2, 22) according to any one of the claims 1 to 18 or a combined hinge device according to claim 19.

29. A motor vehicle (23) comprising a tailgate with at least one hinge device (2, 22) according to any one of the claims 1 to 18 or a combined hinge device according to claim 19.